



# NTP Historical Controls Report

All Routes and Vehicles

MICE

August 2017

# REPORT DESCRIPTION

This report shows the tumor rates of control group animals from selected studies. The studies used are shown on the Study Summary page.

The report combines all the data from all of the historical control studies into one section. To see this data broken up by route and vehicle you must run the "By Route And Vehicle" report.

The individual tumor rates shown on the data pages of the report relate to the Study Summary page as follows: the tumor rates are shown in the same order as the Study Summary page, except that they are grouped horizontally in sets of three, with the males in the first set of three and the females in the second set. For example if the study summary showed the studies like this:

**Male**

M1

M2

M3

M4

M5

**Female**

F1

F2

F3

F4

F5

the data would be shown as:

	<b>Male</b>			<b>Female</b>		
M1	M2	M3	F1	F2	F3	
M4	M5		F4	F5		

Directly beneath the individual tumor rates on the data pages are the overall totals for that tumor/site combination. This includes the total tumors/animals, the overall mean (in parentheses), the mean of the study means, and the standard deviation of the study means.

Studies with no control animals of a particular gender are listed on the summary page with the Number of Animals shown as zero and the Start Date and Length of Study shown as "N/A". On the data pages there are blank spaces where tumor rates for these studies would normally be found, so that the male and female rates for the remaining studies can be easily compared.

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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 Report Date: 01/20/2018

**Study Summary**

Laboratory Name	Study Number	Study Start Date	Length of Study in Days	Number of Animals Total and (#/Cage)	Number Surviving and (Mean Life Span)	Maximum Mean Weekly Body Weight	Chemical
<b>Male</b>							
Battelle Northwest	052060104	10/06/08	729	50(5)	38(708)	52.1	Antimony trioxide
Battelle Northwest	052072504	08/31/09	729	50(5)	35(697)	51.1	2,3-Butanedione
Battelle Columbus Laboratory	052020304	07/10/07	730	50(1)	33(694)	52.6	Green Tea Extract
Battelle Columbus Laboratory	051026002	07/16/10	727	49(1)	34(691)	47.6	2-Hydroxy-4-methoxybenzophenone
Battelle Columbus Laboratory	052000604	04/03/07	730	50(1)	26(663)	55.6	Indole-3-carbinol
Battelle Northwest	052051504	05/05/08	729	50(5)	39(709)	52.6	Metal Working Fluids: CIMSTAR 3800
Battelle Northwest	052052304	08/03/09	729	50(5)	38(692)	52.4	Metal Working Fluids: TRIM VX
Battelle Northwest	051047204	01/31/11	729	50(5)	40(705)	52.7	p-Chloro-a,a,a-trifluorotoluene
Southern Research Institute	052020904	02/25/08	729	50(1)	29(657)	55.3	Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
I. I. T. Research Institute	052010578	06/18/12	729	90(1)	66(687)	51.5	Radiofrequency Radiation
Battelle Columbus Laboratory	052032004	08/07/07	730	50(1)	33(687)	55.8	Tetrabromobisphenol A
<b>Female</b>							
Battelle Northwest	052060104	10/06/08	731	50(5)	36(692)	54.1	Antimony trioxide
Battelle Northwest	052072504	08/31/09	731	50(5)	36(697)	51.0	2,3-Butanedione
Battelle Columbus Laboratory	052020304	07/09/07	729	50(5)	34(665)	62.9	Green Tea Extract
Battelle Columbus Laboratory	051026002	07/15/10	726	50(4)	42(716)	54.7	2-Hydroxy-4-methoxybenzophenone
Battelle Columbus Laboratory	052000604	04/02/07	729	50(5)	33(702)	66.6	Indole-3-carbinol
Battelle Northwest	052051504	05/05/08	731	50(5)	39(696)	59.2	Metal Working Fluids: CIMSTAR 3800
Battelle Northwest	052052304	08/03/09	731	50(5)	35(692)	57.9	Metal Working Fluids: TRIM VX
Battelle Northwest	051047204	01/31/11	731	50(5)	38(700)	55.9	p-Chloro-a,a,a-trifluorotoluene
Southern Research Institute	052020904	02/25/08	731	50(5)	33(679)	57.7	Pentabromodiphenyl Ether Mixture [DE-71 (Technical Grade)]
I. I. T. Research Institute	052010578	06/18/12	739	90(1)	67(704)	62.6	Radiofrequency Radiation
Battelle Columbus Laboratory	052032004	08/06/07	729	50(5)	40(711)	66.5	Tetrabromobisphenol A

NOTE: The text on page 2 ("Report Description") describes how the studies listed here are displayed on the data pages that follow.

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

Page: 4  
 Report Date: 01/20/2018

		Male				Female			
<b>#All Organs:</b>									
<b>Benign Tumors</b>									
		37/50 (74%)	22/50 (44%)	43/50 (86%)	25/50 (50%)	15/50 (30%)	20/50 (40%)		
		28/49 (57%)	33/50 (66%)	39/50 (78%)	17/50 (34%)	17/50 (34%)	26/50 (52%)		
		32/50 (64%)	32/50 (64%)	30/50 (60%)	23/50 (46%)	24/50 (48%)	24/50 (48%)		
		61/90 (68%)	38/50 (76%)		36/90 (40%)	22/50 (44%)			
<b>Overall Incidence</b>	Total	395/589 (67.06%)	Mean 66.99%	SD 11.43%	Total	249/590 (42.2%)	Mean 42.36%	SD 7.31%	
.....									
<b>#All Organs:</b>									
<b>Malignant Tumors</b>									
		25/50 (50%)	27/50 (54%)	28/50 (56%)	25/50 (50%)	24/50 (48%)	18/50 (36%)		
		19/49 (39%)	27/50 (54%)	26/50 (52%)	11/50 (22%)	19/50 (38%)	30/50 (60%)		
		32/50 (64%)	25/50 (50%)	27/50 (54%)	27/50 (54%)	24/50 (48%)	16/50 (32%)		
		49/90 (54%)	21/50 (42%)		33/90 (37%)	18/50 (36%)			
<b>Overall Incidence</b>	Total	306/589 (51.95%)	Mean 51.75%	SD 6.78%	Total	245/590 (41.53%)	Mean 41.88%	SD 11.05%	
.....									
<b>#All Organs:</b>									
<b>Malignant and Benign Tumors</b>									
		45/50 (90%)	37/50 (74%)	49/50 (98%)	35/50 (70%)	34/50 (68%)	29/50 (58%)		
		37/49 (76%)	48/50 (96%)	46/50 (92%)	25/50 (50%)	30/50 (60%)	41/50 (82%)		
		42/50 (84%)	44/50 (88%)	40/50 (80%)	38/50 (76%)	38/50 (76%)	34/50 (68%)		
		79/90 (88%)	47/50 (94%)		59/90 (66%)	32/50 (64%)			
<b>Overall Incidence</b>	Total	514/589 (87.27%)	Mean 87.21%	SD 8.03%	Total	395/590 (66.95%)	Mean 67.05%	SD 9.1%	
.....									
<b>#All Organs:</b>									
<b>Hemangioma</b>									
		0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		1/49 (2%)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)		
		1/90 (1%)	2/50 (4%)		4/90 (4%)	1/50 (2%)			
<b>Overall Incidence</b>	Total	7/589 (1.19%)	Mean 1.2%	SD 1.6%	Total	10/590 (1.69%)	Mean 1.49%	SD 1.65%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
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**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

Page: 5  
 Report Date: 01/20/2018

		Male				Female			
<b>#All Organs:</b>									
<b>Hemangiosarcoma</b>									
		2/50 (4%)	1/50 (2%)	5/50 (10%)	4/50 (8%)	0/50 (0%)	2/50 (4%)		
		1/49 (2%)	4/50 (8%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	3/50 (6%)		
		0/50 (0%)	2/50 (4%)	1/50 (2%)	2/50 (4%)	3/50 (6%)	0/50 (0%)		
		2/90 (2%)	1/50 (2%)		2/90 (2%)	1/50 (2%)			
<b>Overall Incidence</b>	Total	20/589 (3.4%)	Mean 3.48%	SD 2.97%	Total	17/590 (2.88%)	Mean 2.93%	SD 2.87%	
.....									
<b>#All Organs:</b>									
<b>Hemangiosarcoma or Hemangioma</b>									
		2/50 (4%)	1/50 (2%)	7/50 (14%)	4/50 (8%)	0/50 (0%)	2/50 (4%)		
		2/49 (4%)	4/50 (8%)	2/50 (4%)	2/50 (4%)	1/50 (2%)	3/50 (6%)		
		0/50 (0%)	2/50 (4%)	1/50 (2%)	3/50 (6%)	3/50 (6%)	1/50 (2%)		
		3/90 (3%)	3/50 (6%)		6/90 (7%)	2/50 (4%)			
<b>Overall Incidence</b>	Total	27/589 (4.58%)	Mean 4.67%	SD 3.73%	Total	27/590 (4.58%)	Mean 4.42%	SD 2.39%	
.....									
<b>#All Organs:</b>									
<b>Histiocytic Sarcoma</b>									
		1/50 (2%)	0/50 (0%)	0/50 (0%)	3/50 (6%)	1/50 (2%)	0/50 (0%)		
		0/49 (0%)	2/50 (4%)	1/50 (2%)	1/50 (2%)	1/50 (2%)	2/50 (4%)		
		0/50 (0%)	0/50 (0%)	1/50 (2%)	4/50 (8%)	2/50 (4%)	1/50 (2%)		
		0/90 (0%)	0/50 (0%)		8/90 (9%)	1/50 (2%)			
<b>Overall Incidence</b>	Total	5/589 (0.85%)	Mean 0.91%	SD 1.38%	Total	24/590 (4.07%)	Mean 3.72%	SD 2.81%	
.....									
<b>#All Organs:</b>									
<b>Malignant Lymphoma: Histiocytic, Lymphocytic, Mixed, NOS, or Undifferentiated Cell Type</b>									
		4/50 (8%)	6/50 (12%)	4/50 (8%)	7/50 (14%)	9/50 (18%)	7/50 (14%)		
		3/49 (6%)	3/50 (6%)	3/50 (6%)	5/50 (10%)	6/50 (12%)	18/50 (36%)		
		6/50 (12%)	6/50 (12%)	5/50 (10%)	10/50 (20%)	9/50 (18%)	7/50 (14%)		
		6/90 (7%)	3/50 (6%)		2/90 (2%)	9/50 (18%)			
<b>Overall Incidence</b>	Total	49/589 (8.32%)	Mean 8.44%	SD 2.59%	Total	89/590 (15.08%)	Mean 16.02%	SD 8.26%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
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**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

Page: 6  
 Report Date: 01/20/2018

		Male				Female			
<b>#All Organs:</b>									
<b>Malignant Schwannoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)		0/90 (0%)	1/50 (2%)			
<b>Overall Incidence</b>	Total	1/589 (0.17%)	Mean 0.18%	SD 0.6%	Total	1/590 (0.17%)	Mean 0.18%	SD 0.6%	
.....									
<b>#All Organs:</b>									
<b>Osteosarcoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)		3/90 (3%)	0/50 (0%)			
<b>Overall Incidence</b>	Total	0/589 (0%)	Mean 0%	SD 0%	Total	3/590 (0.51%)	Mean 0.3%	SD 1.01%	
.....									
<b>#All Organs:</b>									
<b>Osteosarcoma or Osteoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)		3/90 (3%)	0/50 (0%)			
<b>Overall Incidence</b>	Total	0/589 (0%)	Mean 0%	SD 0%	Total	3/590 (0.51%)	Mean 0.3%	SD 1.01%	
.....									
<b>*Adrenal Cortex:</b>									
<b>Adenoma</b>									
		4/49 (8%)	2/50 (4%)	1/49 (2%)	1/50 (2%)	1/50 (2%)	0/49 (0%)		
		1/48 (2%)	0/50 (0%)	9/49 (18%)	0/50 (0%)	2/49 (4%)	0/49 (0%)		
		3/50 (6%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/90 (0%)	1/50 (2%)		1/84 (1%)	0/50 (0%)			
<b>Overall Incidence</b>	Total	21/585 (3.59%)	Mean 3.88%	SD 5.51%	Total	5/581 (0.86%)	Mean 0.84%	SD 1.35%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

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**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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 Report Date: 01/20/2018

		Male				Female			
<b>*Adrenal Medulla:</b>									
<b>  Pheochromocytoma Benign</b>									
		0/49 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	1/50 (2%)	0/49 (0%)		
		1/48 (2%)	0/50 (0%)	1/48 (2%)	0/50 (0%)	0/49 (0%)	1/49 (2%)		
		0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)	0/49 (0%)		
		0/90 (0%)	0/50 (0%)		0/83 (0%)	1/50 (2%)			
<b>Overall Incidence</b>	<b>Total</b>	<b>3/584 (0.51%)</b>	<b>Mean 0.56%</b>	<b>SD 0.96%</b>	<b>Total</b>	<b>6/579 (1.04%)</b>	<b>Mean 1.09%</b>	<b>SD 1.38%</b>	
.....									
<b>*Adrenal Medulla:</b>									
<b>  Pheochromocytoma Malignant</b>									
		0/49 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)		
		0/48 (0%)	0/50 (0%)	0/48 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)		
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)		
		0/90 (0%)	0/50 (0%)		2/83 (2%)	0/50 (0%)			
<b>Overall Incidence</b>	<b>Total</b>	<b>0/584 (0%)</b>	<b>Mean 0%</b>	<b>SD 0%</b>	<b>Total</b>	<b>2/579 (0.35%)</b>	<b>Mean 0.22%</b>	<b>SD 0.73%</b>	
.....									
<b>*Adrenal Medulla:</b>									
<b>  Pheochromocytoma: Benign, Complex, Malignant, NOS</b>									
		0/49 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	1/50 (2%)	0/49 (0%)		
		1/48 (2%)	0/50 (0%)	1/48 (2%)	0/50 (0%)	0/49 (0%)	1/49 (2%)		
		0/50 (0%)	0/50 (0%)	1/50 (2%)	2/50 (4%)	1/50 (2%)	0/49 (0%)		
		0/90 (0%)	0/50 (0%)		2/83 (2%)	1/50 (2%)			
<b>Overall Incidence</b>	<b>Total</b>	<b>3/584 (0.51%)</b>	<b>Mean 0.56%</b>	<b>SD 0.96%</b>	<b>Total</b>	<b>8/579 (1.38%)</b>	<b>Mean 1.31%</b>	<b>SD 1.38%</b>	
.....									
<b>#Blood Vessel:</b>									
<b>  Hemangioma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/90 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)			
<b>Overall Incidence</b>	<b>Total</b>	<b>0/589 (0%)</b>	<b>Mean 0%</b>	<b>SD 0%</b>	<b>Total</b>	<b>1/590 (0.17%)</b>	<b>Mean 0.18%</b>	<b>SD 0.6%</b>	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
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**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

Page: 8  
 Report Date: 01/20/2018

		Male				Female			
<b>#Blood Vessel:</b>									
<b>Hemangiosarcoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)			0/90 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	0/589 (0%)	Mean 0%	SD 0%	Total	1/590 (0.17%)	Mean 0.18%	SD 0.6%	
.....									
<b>*Bone Marrow:</b>									
<b>Hemangiosarcoma</b>									
		0/49 (0%)	0/48 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/47 (0%)	1/50 (2%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/49 (0%)	
		0/90 (0%)	0/50 (0%)			0/90 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	2/584 (0.34%)	Mean 0.36%	SD 0.81%	Total	1/587 (0.17%)	Mean 0.18%	SD 0.6%	
.....									
<b>*Bone Marrow:</b>									
<b>Mast Cell Tumor Malignant</b>									
		0/49 (0%)	1/48 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/47 (2%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
		1/50 (2%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/49 (0%)	
		0/90 (0%)	0/50 (0%)			0/90 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	3/584 (0.51%)	Mean 0.56%	SD 0.97%	Total	0/587 (0%)	Mean 0%	SD 0%	
.....									
<b>*Bone Marrow:</b>									
<b>Sarcoma</b>									
		0/49 (0%)	0/48 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/47 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	1/50 (2%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/49 (0%)	
		0/90 (0%)	0/50 (0%)			0/90 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	0/584 (0%)	Mean 0%	SD 0%	Total	1/587 (0.17%)	Mean 0.18%	SD 0.6%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

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 Tumor Incidence for Selected Control Animal Groups  
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 Vehicle: ALL VEHICLES

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		Male				Female			
<b>#Bone:</b>									
<b>Fibroma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)			0/90 (0%)	1/50 (2%)		
<b>Overall Incidence</b>	Total	0/589 (0%)	Mean 0%	SD 0%	Total	1/590 (0.17%)	Mean 0.18%	SD 0.6%	
.....									
<b>#Bone:</b>									
<b>Hemangioma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)			1/90 (1%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	0/589 (0%)	Mean 0%	SD 0%	Total	1/590 (0.17%)	Mean 0.1%	SD 0.34%	
.....									
<b>#Bone:</b>									
<b>Osteosarcoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)			1/90 (1%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	0/589 (0%)	Mean 0%	SD 0%	Total	1/590 (0.17%)	Mean 0.1%	SD 0.34%	
.....									
<b>#Bone:</b>									
<b>Osteosarcoma or Osteoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)			1/90 (1%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	0/589 (0%)	Mean 0%	SD 0%	Total	1/590 (0.17%)	Mean 0.1%	SD 0.34%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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		Male				Female			
<b>#Bone:</b>									
<b>Sarcoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)			0/90 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	0/589 (0%)	Mean 0%	SD 0%	Total	1/590 (0.17%)	Mean 0.18%	SD 0.6%	
-----									
<b>*Clitoral/Preputial Gland:</b>									
<b>Mast Cell Tumor</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/48 (0%)	0/47 (0%)	0/49 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/49 (0%)	0/44 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/46 (0%)	0/48 (0%)	0/49 (0%)	
		1/89 (1%)	0/50 (0%)			0/82 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	1/587 (0.17%)	Mean 0.1%	SD 0.34%	Total	0/562 (0%)	Mean 0%	SD 0%	
-----									
<b>#Coagulating Gland:</b>									
<b>Granular Cell Tumor</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	1/50 (2%)			0/90 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	1/589 (0.17%)	Mean 0.18%	SD 0.6%	Total	0/590 (0%)	Mean 0%	SD 0%	
-----									
<b>#Coagulating Gland:</b>									
<b>Sarcoma</b>									
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)			0/90 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	1/589 (0.17%)	Mean 0.18%	SD 0.6%	Total	0/590 (0%)	Mean 0%	SD 0%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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		Male				Female			
<b>*Epididymis:</b>									
<b>Mast Cell Tumor</b>									
		0/50 (0%)	0/49 (0%)	0/50 (0%)					
		0/49 (0%)	0/50 (0%)	0/50 (0%)					
		0/50 (0%)	0/50 (0%)	0/50 (0%)					
		1/90 (1%)	0/50 (0%)						
<b>Overall Incidence</b>	Total	1/588 (0.17%)	Mean 0.1%	SD 0.34%					
-----									
<b>#Harderian Gland:</b>									
<b>Adenoma</b>									
		6/50 (12%)	3/50 (6%)	7/50 (14%)	3/50 (6%)	3/50 (6%)	2/50 (4%)		
		6/49 (12%)	6/50 (12%)	7/50 (14%)	1/50 (2%)	3/50 (6%)	2/50 (4%)		
		4/50 (8%)	5/50 (10%)	5/50 (10%)	1/50 (2%)	2/50 (4%)	9/50 (18%)		
		6/90 (7%)	7/50 (14%)		4/90 (4%)	2/50 (4%)			
<b>Overall Incidence</b>	Total	62/589 (10.53%)	Mean 10.81%	SD 2.91%	Total	32/590 (5.42%)	Mean 5.49%	SD 4.38%	
-----									
<b>#Harderian Gland:</b>									
<b>Carcinoma</b>									
		1/50 (2%)	0/50 (0%)	1/50 (2%)	4/50 (8%)	1/50 (2%)	2/50 (4%)		
		1/49 (2%)	1/50 (2%)	5/50 (10%)	1/50 (2%)	0/50 (0%)	0/50 (0%)		
		2/50 (4%)	1/50 (2%)	1/50 (2%)	3/50 (6%)	0/50 (0%)	1/50 (2%)		
		3/90 (3%)	1/50 (2%)		0/90 (0%)	1/50 (2%)			
<b>Overall Incidence</b>	Total	17/589 (2.89%)	Mean 2.85%	SD 2.56%	Total	13/590 (2.2%)	Mean 2.36%	SD 2.66%	
-----									
<b>#Harderian Gland:</b>									
<b>Carcinoma or Adenoma</b>									
		7/50 (14%)	3/50 (6%)	8/50 (16%)	7/50 (14%)	4/50 (8%)	4/50 (8%)		
		7/49 (14%)	7/50 (14%)	12/50 (24%)	2/50 (4%)	3/50 (6%)	2/50 (4%)		
		6/50 (12%)	6/50 (12%)	6/50 (12%)	4/50 (8%)	2/50 (4%)	10/50 (20%)		
		9/90 (10%)	8/50 (16%)		4/90 (4%)	3/50 (6%)			
<b>Overall Incidence</b>	Total	79/589 (13.41%)	Mean 13.66%	SD 4.46%	Total	45/590 (7.63%)	Mean 7.86%	SD 4.98%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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		Male				Female						
<b>#Harderian Gland:</b>												
<b>Mast Cell Tumor</b>												
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/90	(1%)	0/50	(0%)			0/90	(0%)	0/50	(0%)	
<b>Overall Incidence</b>	Total	1/589 (0.17%)		Mean 0.1%		SD 0.34%		Total	0/590 (0%)		Mean 0%	SD 0%
.....												
<b>*Heart:</b>												
<b>Hemangiosarcoma</b>												
		0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/90	(0%)	0/50	(0%)			0/90	(0%)	0/50	(0%)	
<b>Overall Incidence</b>	Total	1/589 (0.17%)		Mean 0.18%		SD 0.6%		Total	0/590 (0%)		Mean 0%	SD 0%
.....												
<b>#Intestine Large: Cecum:</b>												
<b>Leiomyosarcoma</b>												
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/90	(0%)	0/50	(0%)			0/90	(0%)	0/50	(0%)	
<b>Overall Incidence</b>	Total	0/589 (0%)		Mean 0%		SD 0%		Total	1/590 (0.17%)		Mean 0.18%	SD 0.6%
.....												
<b>#Intestine Small: Duodenum:</b>												
<b>Adenoma</b>												
		2/50	(4%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/49	(0%)	2/50	(4%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	
		2/50	(4%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/90	(0%)	0/50	(0%)			0/90	(0%)	1/50	(2%)	
<b>Overall Incidence</b>	Total	7/589 (1.19%)		Mean 1.27%		SD 1.85%		Total	2/590 (0.34%)		Mean 0.36%	SD 0.81%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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 Report Date: 01/20/2018

		Male				Female								
<b>#Intestine Small: Duodenum:</b>														
<b>Carcinoma</b>														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		1/90	(1%)	0/50	(0%)			0/90	(0%)	0/50	(0%)			
<b>Overall Incidence</b>	Total	1/589 (0.17%)		Mean 0.1%		SD 0.34%		Total	0/590 (0%)		Mean 0%		SD 0%	
.....														
<b>#Intestine Small: Duodenum:</b>														
<b>Polyp Adenomatous</b>														
		0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/90	(0%)	0/50	(0%)			0/90	(0%)	0/50	(0%)			
<b>Overall Incidence</b>	Total	1/589 (0.17%)		Mean 0.18%		SD 0.6%		Total	0/590 (0%)		Mean 0%		SD 0%	
.....														
<b>#Intestine Small: Ileum:</b>														
<b>Adenoma</b>														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)			
		0/90	(0%)	0/50	(0%)			0/90	(0%)	0/50	(0%)			
<b>Overall Incidence</b>	Total	0/589 (0%)		Mean 0%		SD 0%		Total	1/590 (0.17%)		Mean 0.18%		SD 0.6%	
.....														
<b>#Intestine Small: Jejunum:</b>														
<b>Adenoma</b>														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/49	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/90	(0%)	1/50	(2%)			0/90	(0%)	0/50	(0%)			
<b>Overall Incidence</b>	Total	2/589 (0.34%)		Mean 0.36%		SD 0.81%		Total	0/590 (0%)		Mean 0%		SD 0%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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		Male				Female						
<b>#Intestine Small: Jejunum:</b>												
<b>Carcinoma</b>												
		1/50	(2%)	0/50	(0%)	2/50	(4%)	0/50	(0%)	0/50	(0%)	
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		2/90	(2%)	1/50	(2%)			0/90	(0%)	0/50	(0%)	
<b>Overall Incidence</b>	Total	7/589 (1.19%)		Mean 1.11%		SD 1.39%		Total	0/590 (0%)		Mean 0%	SD 0%
.....												
<b>#Intestine Small: Jejunum:</b>												
<b>Leiomyosarcoma</b>												
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/90	(0%)	0/50	(0%)			0/90	(0%)	0/50	(0%)	
<b>Overall Incidence</b>	Total	0/589 (0%)		Mean 0%		SD 0%		Total	2/590 (0.34%)		Mean 0.36%	SD 0.81%
.....												
<b>#Intestine Small: Jejunum:</b>												
<b>Mast Cell Tumor</b>												
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/90	(1%)	0/50	(0%)			0/90	(0%)	0/50	(0%)	
<b>Overall Incidence</b>	Total	1/589 (0.17%)		Mean 0.1%		SD 0.34%		Total	0/590 (0%)		Mean 0%	SD 0%
.....												
<b>#Intestine Small: Site Unspecified:</b>												
<b>Adenoma</b>												
		2/50	(4%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/49	(0%)	3/50	(6%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	
		2/50	(4%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	
		0/90	(0%)	1/50	(2%)			0/90	(0%)	1/50	(2%)	
<b>Overall Incidence</b>	Total	9/589 (1.53%)		Mean 1.64%		SD 2.16%		Total	3/590 (0.51%)		Mean 0.55%	SD 0.93%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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 Report Date: 01/20/2018

		Male				Female			
<b>#Intestine Small: Site Unspecified:</b>									
<b>Carcinoma</b>									
		1/50 (2%)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		3/90 (3%)	1/50 (2%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
<b>Overall Incidence</b>	Total	8/589 (1.36%)	Mean 1.21%	SD 1.51%	Total	0/590 (0%)	Mean 0%	SD 0%	
-----									
<b>#Intestine Small: Site Unspecified:</b>									
<b>Carcinoma or Adenoma</b>									
		3/50 (6%)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	3/50 (6%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
		2/50 (4%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		3/90 (3%)	2/50 (4%)		0/90 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	
<b>Overall Incidence</b>	Total	17/589 (2.89%)	Mean 2.85%	SD 2.23%	Total	3/590 (0.51%)	Mean 0.55%	SD 0.93%	
-----									
<b>#Intestine Small: Site Unspecified:</b>									
<b>Leiomyosarcoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
<b>Overall Incidence</b>	Total	0/589 (0%)	Mean 0%	SD 0%	Total	2/590 (0.34%)	Mean 0.36%	SD 0.81%	
-----									
<b>#Intestine Small: Site Unspecified:</b>									
<b>Mast Cell Tumor</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/90 (1%)	0/50 (0%)		0/90 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
<b>Overall Incidence</b>	Total	1/589 (0.17%)	Mean 0.1%	SD 0.34%	Total	0/590 (0%)	Mean 0%	SD 0%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
**Route: ALL ROUTES**  
**Vehicle: ALL VEHICLES**

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		Male				Female			
<b>#Intestine Small: Site Unspecified:</b>									
<b>Polyp Adenomatous</b>									
		0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)			0/90 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	1/589 (0.17%)	Mean 0.18%	SD 0.6%	Total	0/590 (0%)	Mean 0%	SD 0%	
.....									
<b>*Islets, Pancreatic:</b>									
<b>Adenoma</b>									
		0/49 (0%)	0/48 (0%)	1/50 (2%)	0/50 (0%)	0/49 (0%)	1/50 (2%)		
		1/47 (2%)	1/50 (2%)	2/50 (4%)	0/49 (0%)	0/50 (0%)	1/50 (2%)		
		0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)		
		0/88 (0%)	0/50 (0%)		0/87 (0%)	0/50 (0%)			
<b>Overall Incidence</b>	Total	7/582 (1.2%)	Mean 1.28%	SD 1.36%	Total	3/585 (0.51%)	Mean 0.55%	SD 0.93%	
.....									
<b>*Islets, Pancreatic:</b>									
<b>Carcinoma</b>									
		0/49 (0%)	0/48 (0%)	1/50 (2%)	0/50 (0%)	0/49 (0%)	0/50 (0%)		
		0/47 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/88 (0%)	0/50 (0%)		1/87 (1%)	0/50 (0%)			
<b>Overall Incidence</b>	Total	1/582 (0.17%)	Mean 0.18%	SD 0.6%	Total	1/585 (0.17%)	Mean 0.1%	SD 0.35%	
.....									
<b>*Islets, Pancreatic:</b>									
<b>Carcinoma or Adenoma</b>									
		0/49 (0%)	0/48 (0%)	2/50 (4%)	0/50 (0%)	0/49 (0%)	1/50 (2%)		
		1/47 (2%)	1/50 (2%)	2/50 (4%)	0/49 (0%)	0/50 (0%)	1/50 (2%)		
		0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)		
		0/88 (0%)	0/50 (0%)		1/87 (1%)	0/50 (0%)			
<b>Overall Incidence</b>	Total	8/582 (1.37%)	Mean 1.47%	SD 1.58%	Total	4/585 (0.68%)	Mean 0.65%	SD 0.93%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
**Route: ALL ROUTES**  
**Vehicle: ALL VEHICLES**

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		Male				Female			
<b>*Kidney: Renal Tubule: Adenoma</b>									
		0/50 (0%)	0/49 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/48 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	1/50 (2%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)			2/89 (2%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	1/587 (0.17%)	Mean 0.18%	SD 0.6%	Total	3/587 (0.51%)	Mean 0.39%	SD 0.86%	
.....									
<b>*Kidney: Renal Tubule: Carcinoma</b>									
		0/50 (0%)	0/49 (0%)	2/50 (4%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
		0/48 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)			0/89 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	2/587 (0.34%)	Mean 0.36%	SD 1.21%	Total	1/587 (0.17%)	Mean 0.18%	SD 0.6%	
.....									
<b>*Kidney: Renal Tubule: Carcinoma or Adenoma</b>									
		0/50 (0%)	0/49 (0%)	3/50 (6%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
		0/48 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	1/50 (2%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)			2/89 (2%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	3/587 (0.51%)	Mean 0.55%	SD 1.81%	Total	4/587 (0.68%)	Mean 0.57%	SD 0.97%	
.....									
<b>*Kidney: Renal Tubule: Mast Cell Tumor</b>									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/48 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/49 (0%)	0/50 (0%)	0/50 (0%)	
		1/90 (1%)	0/50 (0%)			0/89 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	1/587 (0.17%)	Mean 0.1%	SD 0.34%	Total	0/587 (0%)	Mean 0%	SD 0%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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 Report Date: 01/20/2018

		Male				Female			
<b>*Kidney: Renal Tubule:</b>									
<b>Renal Mesenchymal Tumor</b>									
		0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/48 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)		1/89 (1%)	0/50 (0%)			
<b>Overall Incidence</b>	Total	0/587 (0%)	Mean 0%	SD 0%	Total	1/587 (0.17%)	Mean 0.1%	SD 0.34%	
.....									
<b>*Liver:</b>									
<b>Cholangiocarcinoma</b>									
		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)		0/89 (0%)	0/50 (0%)			
<b>Overall Incidence</b>	Total	1/589 (0.17%)	Mean 0.18%	SD 0.6%	Total	0/589 (0%)	Mean 0%	SD 0%	
.....									
<b>*Liver:</b>									
<b>Hemangioma</b>									
		0/50 (0%)	0/50 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	2/50 (4%)		0/89 (0%)	0/50 (0%)			
<b>Overall Incidence</b>	Total	4/589 (0.68%)	Mean 0.73%	SD 1.62%	Total	1/589 (0.17%)	Mean 0.18%	SD 0.6%	
.....									
<b>*Liver:</b>									
<b>Hemangiosarcoma</b>									
		0/50 (0%)	0/50 (0%)	3/50 (6%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/49 (0%)	4/50 (8%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/90 (1%)	0/50 (0%)		0/89 (0%)	0/50 (0%)			
<b>Overall Incidence</b>	Total	8/589 (1.36%)	Mean 1.37%	SD 2.84%	Total	1/589 (0.17%)	Mean 0.18%	SD 0.6%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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 Report Date: 01/20/2018

		Male				Female			
<b>*Liver:</b>									
<b>Hepatoblastoma</b>									
		2/50 (4%)	1/50 (2%)	2/50 (4%)	0/50 (0%)	1/50 (2%)	0/50 (0%)		
		1/49 (2%)	3/50 (6%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)		
		0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)		
		6/90 (7%)	2/50 (4%)		1/89 (1%)	0/50 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	19/589 (3.23%)	Mean 2.97%	SD 2.18%	Total	4/589 (0.68%)	Mean 0.65%	SD 0.93%	
.....									
<b>*Liver:</b>									
<b>Hepatocellular Adenoma</b>									
		30/50 (60%)	17/50 (34%)	35/50 (70%)	11/50 (22%)	6/50 (12%)	12/50 (24%)		
		21/49 (43%)	26/50 (52%)	24/50 (48%)	3/50 (6%)	7/50 (14%)	14/50 (28%)		
		23/50 (46%)	25/50 (50%)	23/50 (46%)	9/50 (18%)	12/50 (24%)	5/50 (10%)		
		52/90 (58%)	32/50 (64%)		19/89 (21%)	13/50 (26%)			
<b>Overall Incidence</b>	Total	308/589 (52.29%)	Mean 51.88%	SD 10.32%	Total	111/589 (18.85%)	Mean 18.67%	SD 7.2%	
.....									
<b>*Liver:</b>									
<b>Hepatocellular Carcinoma</b>									
		15/50 (30%)	17/50 (34%)	15/50 (30%)	6/50 (12%)	5/50 (10%)	5/50 (10%)		
		8/49 (16%)	12/50 (24%)	11/50 (22%)	1/50 (2%)	6/50 (12%)	10/50 (20%)		
		21/50 (42%)	8/50 (16%)	18/50 (36%)	7/50 (14%)	7/50 (14%)	4/50 (8%)		
		28/90 (31%)	11/50 (22%)		8/89 (9%)	2/50 (4%)			
<b>Overall Incidence</b>	Total	164/589 (27.84%)	Mean 27.59%	SD 8.25%	Total	61/589 (10.36%)	Mean 10.45%	SD 4.93%	
.....									
<b>*Liver:</b>									
<b>Hepatocellular Carcinoma or Hepatoblastoma</b>									
		16/50 (32%)	18/50 (36%)	17/50 (34%)	6/50 (12%)	6/50 (12%)	5/50 (10%)		
		8/49 (16%)	15/50 (30%)	11/50 (22%)	1/50 (2%)	6/50 (12%)	10/50 (20%)		
		21/50 (42%)	9/50 (18%)	18/50 (36%)	7/50 (14%)	7/50 (14%)	4/50 (8%)		
		32/90 (36%)	12/50 (24%)		9/89 (10%)	2/50 (4%)			
<b>Overall Incidence</b>	Total	177/589 (30.05%)	Mean 29.63%	SD 8.34%	Total	63/589 (10.7%)	Mean 10.74%	SD 4.92%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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 Report Date: 01/20/2018

		Male				Female			
<b>*Liver:</b>									
<b>Hepatocellular Carcinoma or Hepatocellular Adenoma</b>									
		39/50 (78%)	31/50 (62%)	40/50 (80%)	14/50 (28%)	11/50 (22%)	14/50 (28%)		
		26/49 (53%)	35/50 (70%)	32/50 (64%)	4/50 (8%)	12/50 (24%)	20/50 (40%)		
		34/50 (68%)	30/50 (60%)	31/50 (62%)	15/50 (30%)	18/50 (36%)	8/50 (16%)		
		67/90 (74%)	39/50 (78%)		25/89 (28%)	15/50 (30%)			
<b>Overall Incidence</b>	Total	404/589 (68.59%)	Mean 68.14%	SD 8.74%	Total	156/589 (26.49%)	Mean 26.37%	SD 8.85%	
.....									
<b>*Liver:</b>									
<b>Hepatocellular Carcinoma, Hepatocellular Adenoma, or Hepatoblastoma</b>									
		39/50 (78%)	32/50 (64%)	40/50 (80%)	14/50 (28%)	12/50 (24%)	14/50 (28%)		
		26/49 (53%)	36/50 (72%)	32/50 (64%)	4/50 (8%)	12/50 (24%)	20/50 (40%)		
		34/50 (68%)	31/50 (62%)	31/50 (62%)	15/50 (30%)	18/50 (36%)	8/50 (16%)		
		68/90 (76%)	39/50 (78%)		25/89 (28%)	15/50 (30%)			
<b>Overall Incidence</b>	Total	408/589 (69.27%)	Mean 68.78%	SD 8.59%	Total	157/589 (26.66%)	Mean 26.55%	SD 8.77%	
.....									
<b>*Liver:</b>									
<b>Hepatocholangiocarcinoma</b>									
		1/50 (2%)	1/50 (2%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)		
		1/49 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)	3/50 (6%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		1/90 (1%)	0/50 (0%)		0/89 (0%)	0/50 (0%)			
<b>Overall Incidence</b>	Total	7/589 (1.19%)	Mean 1.2%	SD 1.84%	Total	1/589 (0.17%)	Mean 0.18%	SD 0.6%	
.....									
<b>*Liver:</b>									
<b>Mast Cell Tumor</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		1/90 (1%)	0/50 (0%)		0/89 (0%)	0/50 (0%)			
<b>Overall Incidence</b>	Total	1/589 (0.17%)	Mean 0.1%	SD 0.34%	Total	0/589 (0%)	Mean 0%	SD 0%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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 Report Date: 01/20/2018

		Male				Female			
<b>*Lung:</b>									
<b>Alveolar/Bronchiolar Adenoma</b>									
		10/50 (20%)	5/50 (10%)	12/50 (24%)	1/50 (2%)	3/50 (6%)	5/50 (10%)		
		7/49 (14%)	4/50 (8%)	5/50 (10%)	5/50 (10%)	1/50 (2%)	1/50 (2%)		
		6/50 (12%)	11/50 (22%)	5/50 (10%)	4/50 (8%)	5/50 (10%)	1/50 (2%)		
		13/90 (14%)	6/50 (12%)		3/90 (3%)	5/50 (10%)			
<b>Overall Incidence</b>	<b>Total</b>	84/589 (14.26%)	Mean 14.25%	SD 5.4%	<b>Total</b>	34/590 (5.76%)	Mean 5.94%	SD 3.73%	
.....									
<b>*Lung:</b>									
<b>Alveolar/Bronchiolar Carcinoma</b>									
		4/50 (8%)	5/50 (10%)	2/50 (4%)	2/50 (4%)	3/50 (6%)	1/50 (2%)		
		5/49 (10%)	4/50 (8%)	8/50 (16%)	0/50 (0%)	2/50 (4%)	4/50 (8%)		
		10/50 (20%)	6/50 (12%)	5/50 (10%)	5/50 (10%)	0/50 (0%)	0/50 (0%)		
		13/90 (14%)	4/50 (8%)		3/90 (3%)	1/50 (2%)			
<b>Overall Incidence</b>	<b>Total</b>	66/589 (11.21%)	Mean 10.97%	SD 4.44%	<b>Total</b>	21/590 (3.56%)	Mean 3.58%	SD 3.32%	
.....									
<b>*Lung:</b>									
<b>Alveolar/Bronchiolar Carcinoma or Alveolar/Bronchiolar Adenoma</b>									
		13/50 (26%)	9/50 (18%)	14/50 (28%)	3/50 (6%)	6/50 (12%)	6/50 (12%)		
		11/49 (22%)	8/50 (16%)	13/50 (26%)	5/50 (10%)	3/50 (6%)	4/50 (8%)		
		14/50 (28%)	17/50 (34%)	10/50 (20%)	9/50 (18%)	5/50 (10%)	1/50 (2%)		
		23/90 (26%)	10/50 (20%)		6/90 (7%)	6/50 (12%)			
<b>Overall Incidence</b>	<b>Total</b>	142/589 (24.11%)	Mean 24%	SD 5.26%	<b>Total</b>	54/590 (9.15%)	Mean 9.33%	SD 4.27%	
.....									
<b>*Lung:</b>									
<b>Hemangiosarcoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/90 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)			
<b>Overall Incidence</b>	<b>Total</b>	1/589 (0.17%)	Mean 0.18%	SD 0.6%	<b>Total</b>	0/590 (0%)	Mean 0%	SD 0%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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 Report Date: 01/20/2018

		Male				Female			
<b>*Lung:</b>									
<b>Mast Cell Tumor</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/90 (1%)	0/50 (0%)			0/90 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	1/589 (0.17%)	Mean 0.1%	SD 0.34%	Total	0/590 (0%)	Mean 0%	SD 0%	
.....									
<b>#Lymph Node:</b>									
<b>Hemangiosarcoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)			
<b>Overall Incidence</b>	Total	0/589 (0%)	Mean 0%	SD 0%	Total	2/590 (0.34%)	Mean 0.36%	SD 0.81%	
.....									
<b>#Lymph Node:</b>									
<b>Mast Cell Tumor</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/90 (1%)	0/50 (0%)		0/90 (0%)	0/50 (0%)			
<b>Overall Incidence</b>	Total	1/589 (0.17%)	Mean 0.1%	SD 0.34%	Total	0/590 (0%)	Mean 0%	SD 0%	
.....									
<b>#Lymph Node, Mandibular:</b>									
<b>Mast Cell Tumor</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/90 (1%)	0/50 (0%)		0/90 (0%)	0/50 (0%)			
<b>Overall Incidence</b>	Total	1/589 (0.17%)	Mean 0.1%	SD 0.34%	Total	0/590 (0%)	Mean 0%	SD 0%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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		Male				Female			
<b>#Lymph Node, Mesenteric:</b>									
<b>Hemangioma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/90 (1%)	0/50 (0%)			0/90 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	1/589 (0.17%)	Mean 0.1%	SD 0.34%	Total	1/590 (0.17%)	Mean 0.18%	SD 0.6%	
.....									
<b>#Lymph Node, Mesenteric:</b>									
<b>Hemangiosarcoma</b>									
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)			0/90 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	1/589 (0.17%)	Mean 0.18%	SD 0.6%	Total	0/590 (0%)	Mean 0%	SD 0%	
.....									
<b>#Lymph Node, Mesenteric:</b>									
<b>Mast Cell Tumor</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/90 (1%)	0/50 (0%)			0/90 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	1/589 (0.17%)	Mean 0.1%	SD 0.34%	Total	0/590 (0%)	Mean 0%	SD 0%	
.....									
<b>#Mammary Gland:</b>									
<b>Adenoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)			0/90 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	0/589 (0%)	Mean 0%	SD 0%	Total	2/590 (0.34%)	Mean 0.36%	SD 0.81%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
**Route: ALL ROUTES**  
**Vehicle: ALL VEHICLES**

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 Report Date: 01/20/2018

		Male				Female			
<b>#Mammary Gland:</b>									
<b>Carcinoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		1/49 (2%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	2/50 (4%)	
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/90 (0%)	0/50 (0%)			0/90 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	2/589 (0.34%)	Mean 0.37%	SD 0.82%	Total	5/590 (0.85%)	Mean 0.91%	SD 1.38%	
.....									
<b>#Mammary Gland:</b>									
<b>Carcinoma or Adenoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	1/50 (2%)	0/50 (0%)	
		1/49 (2%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	1/50 (2%)	2/50 (4%)	
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/90 (0%)	0/50 (0%)			0/90 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	2/589 (0.34%)	Mean 0.37%	SD 0.82%	Total	7/590 (1.19%)	Mean 1.27%	SD 1.35%	
.....									
<b>#Mammary Gland:</b>									
<b>Fibroma, Fibroadenoma or Adenoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)			0/90 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	0/589 (0%)	Mean 0%	SD 0%	Total	2/590 (0.34%)	Mean 0.36%	SD 0.81%	
.....									
<b>#Mammary Gland:</b>									
<b>Fibroma, Fibroadenoma, Carcinoma, or Adenoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	1/50 (2%)	0/50 (0%)	
		1/49 (2%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	1/50 (2%)	2/50 (4%)	
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/90 (0%)	0/50 (0%)			0/90 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	2/589 (0.34%)	Mean 0.37%	SD 0.82%	Total	7/590 (1.19%)	Mean 1.27%	SD 1.35%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
**Route: ALL ROUTES**  
**Vehicle: ALL VEHICLES**

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		Male				Female						
<b>#Mesentery:</b>												
<b>Hemangioma</b>												
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/49	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/90	(0%)	0/50	(0%)			1/90	(1%)	0/50	(0%)	
<b>Overall Incidence</b>	Total	1/589 (0.17%)		Mean 0.18%		SD 0.6%		Total	1/590 (0.17%)		Mean 0.1%	SD 0.34%
.....												
<b>#Mesentery:</b>												
<b>Hemangiosarcoma</b>												
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	
		1/90	(1%)	0/50	(0%)			0/90	(0%)	0/50	(0%)	
<b>Overall Incidence</b>	Total	1/589 (0.17%)		Mean 0.1%		SD 0.34%		Total	1/590 (0.17%)		Mean 0.18%	SD 0.6%
.....												
<b>#Mesentery:</b>												
<b>Lipoma</b>												
		0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/90	(1%)	0/50	(0%)			0/90	(0%)	0/50	(0%)	
<b>Overall Incidence</b>	Total	1/589 (0.17%)		Mean 0.1%		SD 0.34%		Total	1/590 (0.17%)		Mean 0.18%	SD 0.6%
.....												
<b>#Mesentery:</b>												
<b>Sarcoma</b>												
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/49	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/90	(0%)	0/50	(0%)			0/90	(0%)	0/50	(0%)	
<b>Overall Incidence</b>	Total	0/589 (0%)		Mean 0%		SD 0%		Total	1/590 (0.17%)		Mean 0.18%	SD 0.6%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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		Male				Female			
<b>*Nose:</b>									
<b>Adenoma</b>									
		0/50 (0%)	0/49 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/48 (2%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)			0/89 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	0/587 (0%)	Mean 0%	SD 0%	Total	1/587 (0.17%)	Mean 0.19%	SD 0.63%	
.....									
<b>*Nose:</b>									
<b>Polyp</b>									
		0/50 (0%)	1/49 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/48 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)			0/89 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	1/587 (0.17%)	Mean 0.19%	SD 0.62%	Total	0/587 (0%)	Mean 0%	SD 0%	
.....									
<b>#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):</b>									
<b>Papilloma Squamous or Papilloma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)			0/90 (0%)	1/50 (2%)		
<b>Overall Incidence</b>	Total	1/589 (0.17%)	Mean 0.18%	SD 0.6%	Total	1/590 (0.17%)	Mean 0.18%	SD 0.6%	
.....									
<b>#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):</b>									
<b>Squamous Cell Carcinoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)			0/90 (0%)	1/50 (2%)		
<b>Overall Incidence</b>	Total	0/589 (0%)	Mean 0%	SD 0%	Total	1/590 (0.17%)	Mean 0.18%	SD 0.6%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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 Report Date: 01/20/2018

		Male				Female			
<b>#Oral Cavity (Oral Mucosa, Tongue, Pharynx, Tooth, Gingiva):</b>									
<b>Squamous Cell Carcinoma, Papilloma Squamous, or Papilloma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)			0/90 (0%)	2/50 (4%)		
<b>Overall Incidence</b>	Total	1/589 (0.17%)		Mean 0.18%	SD 0.6%	Total	2/590 (0.34%)		Mean 0.36% SD 1.21%
.....									
<b>#Oral Mucosa:</b>									
<b>Squamous Cell Carcinoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)			0/90 (0%)	1/50 (2%)		
<b>Overall Incidence</b>	Total	0/589 (0%)		Mean 0%	SD 0%	Total	1/590 (0.17%)		Mean 0.18% SD 0.6%
.....									
<b>*Ovary:</b>									
<b>Cystadenocarcinoma</b>									
						0/50 (0%)	0/49 (0%)	1/50 (2%)	
						0/48 (0%)	0/50 (0%)	0/50 (0%)	
						0/50 (0%)	0/50 (0%)	0/48 (0%)	
						0/75 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total					1/570 (0.18%)		Mean 0.18%	SD 0.6%
.....									
<b>*Ovary:</b>									
<b>Cystadenoma</b>									
						1/50 (2%)	0/49 (0%)	3/50 (6%)	
						4/48 (8%)	1/50 (2%)	2/50 (4%)	
						1/50 (2%)	2/50 (4%)	2/48 (4%)	
						2/75 (3%)	2/50 (4%)		
<b>Overall Incidence</b>	Total					20/570 (3.51%)		Mean 3.56%	SD 2.25%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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 Report Date: 01/20/2018

	Male		Female			
<b>*Ovary:</b>						
<b>Granulosa Cell Tumor Benign</b>						
		0/50 (0%)	0/49 (0%)	0/50 (0%)		
		0/48 (0%)	0/50 (0%)	1/50 (2%)		
		1/50 (2%)	0/50 (0%)	1/48 (2%)		
		1/75 (1%)	0/50 (0%)			
<b>Overall Incidence</b>	<b>Total</b>	<b>4/570 (0.7%)</b>	<b>Mean 0.67%</b>	<b>SD 0.95%</b>		
.....						
<b>*Ovary:</b>						
<b>Granulosa Cell Tumor Malignant</b>						
		1/50 (2%)	0/49 (0%)	0/50 (0%)		
		0/48 (0%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/48 (0%)		
		0/75 (0%)	0/50 (0%)			
<b>Overall Incidence</b>	<b>Total</b>	<b>1/570 (0.18%)</b>	<b>Mean 0.18%</b>	<b>SD 0.6%</b>		
.....						
<b>*Ovary:</b>						
<b>Granulosa Cell Tumor: Benign, Malignant, NOS</b>						
		1/50 (2%)	0/49 (0%)	0/50 (0%)		
		0/48 (0%)	0/50 (0%)	1/50 (2%)		
		1/50 (2%)	0/50 (0%)	1/48 (2%)		
		1/75 (1%)	0/50 (0%)			
<b>Overall Incidence</b>	<b>Total</b>	<b>5/570 (0.88%)</b>	<b>Mean 0.86%</b>	<b>SD 1%</b>		
.....						
<b>*Ovary:</b>						
<b>Granulosa-Theca Tumor Malignant</b>						
		0/50 (0%)	1/49 (2%)	0/50 (0%)		
		0/48 (0%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)	1/50 (2%)	0/48 (0%)		
		0/75 (0%)	0/50 (0%)			
<b>Overall Incidence</b>	<b>Total</b>	<b>2/570 (0.35%)</b>	<b>Mean 0.37%</b>	<b>SD 0.82%</b>		

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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 Report Date: 01/20/2018

	Male		Female			
<b>*Ovary:</b>						
<b>Hemangioma</b>						
		0/50 (0%)	0/49 (0%)	0/50 (0%)		
		1/48 (2%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/48 (0%)		
		2/75 (3%)	0/50 (0%)			
<b>Overall Incidence</b>	<b>Total</b>	<b>3/570 (0.53%)</b>	<b>Mean 0.43%</b>	<b>SD 0.97%</b>		
.....						
<b>*Ovary:</b>						
<b>Hemangiosarcoma</b>						
		1/50 (2%)	0/49 (0%)	0/50 (0%)		
		0/48 (0%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/48 (0%)		
		0/75 (0%)	0/50 (0%)			
<b>Overall Incidence</b>	<b>Total</b>	<b>1/570 (0.18%)</b>	<b>Mean 0.18%</b>	<b>SD 0.6%</b>		
.....						
<b>*Ovary:</b>						
<b>Luteoma</b>						
		0/50 (0%)	0/49 (0%)	0/50 (0%)		
		0/48 (0%)	0/50 (0%)	1/50 (2%)		
		0/50 (0%)	2/50 (4%)	0/48 (0%)		
		0/75 (0%)	0/50 (0%)			
<b>Overall Incidence</b>	<b>Total</b>	<b>3/570 (0.53%)</b>	<b>Mean 0.55%</b>	<b>SD 1.29%</b>		
.....						
<b>*Ovary:</b>						
<b>Sarcoma</b>						
		0/50 (0%)	0/49 (0%)	1/50 (2%)		
		0/48 (0%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/48 (0%)		
		0/75 (0%)	0/50 (0%)			
<b>Overall Incidence</b>	<b>Total</b>	<b>1/570 (0.18%)</b>	<b>Mean 0.18%</b>	<b>SD 0.6%</b>		

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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		Male				Female								
<b>*Ovary:</b>														
<b>Thecoma Malignant</b>														
					0/50	(0%)	0/49	(0%)	0/50	(0%)				
					0/48	(0%)	0/50	(0%)	0/50	(0%)				
					0/50	(0%)	0/50	(0%)	0/48	(0%)				
					1/75	(1%)	0/50	(0%)						
<b>Overall Incidence</b>					<b>Total</b>	1/570	(0.18%)	<b>Mean</b>	0.12%	<b>SD</b>	0.4%			
.....														
<b>*Ovary:</b>														
<b>Tubulostromal Adenoma</b>														
					0/50	(0%)	0/49	(0%)	0/50	(0%)				
					0/48	(0%)	1/50	(2%)	0/50	(0%)				
					0/50	(0%)	0/50	(0%)	0/48	(0%)				
					0/75	(0%)	0/50	(0%)						
<b>Overall Incidence</b>					<b>Total</b>	1/570	(0.18%)	<b>Mean</b>	0.18%	<b>SD</b>	0.6%			
.....														
<b>*Pancreas:</b>														
<b>Mast Cell Tumor</b>														
		0/49	(0%)	0/48	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)			
		1/87	(1%)	0/50	(0%)	0/87	(0%)	0/50	(0%)					
<b>Overall Incidence</b>	<b>Total</b>	1/583	(0.17%)	<b>Mean</b>	0.1%	<b>SD</b>	0.35%	<b>Total</b>	0/586	(0%)	<b>Mean</b>	0%		
											<b>SD</b>	0%		
.....														
<b>*Parathyroid Gland:</b>														
<b>Adenoma</b>														
		0/27	(0%)	0/40	(0%)	0/41	(0%)	0/27	(0%)	0/38	(0%)	0/35	(0%)	
		0/32	(0%)	0/48	(0%)	0/34	(0%)	0/21	(0%)	0/43	(0%)	0/26	(0%)	
		0/28	(0%)	0/36	(0%)	0/48	(0%)	1/35	(3%)	0/36	(0%)	0/44	(0%)	
		0/68	(0%)	0/45	(0%)	0/60	(0%)	0/34	(0%)					
<b>Overall Incidence</b>	<b>Total</b>	0/447	(0%)	<b>Mean</b>	0%	<b>SD</b>	0%	<b>Total</b>	1/399	(0.25%)	<b>Mean</b>	0.26%	<b>SD</b>	0.86%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
**Route: ALL ROUTES**  
**Vehicle: ALL VEHICLES**

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		Male				Female			
<b>*Pituitary Gland: Pars Distalis or Unspecified Site:</b>									
<b>Adenoma</b>									
		0/49 (0%)	0/50 (0%)	1/49 (2%)	9/49 (18%)	2/49 (4%)	0/50 (0%)		
		0/45 (0%)	0/50 (0%)	0/50 (0%)	0/47 (0%)	3/49 (6%)	5/50 (10%)		
		1/50 (2%)	0/50 (0%)	0/47 (0%)	8/48 (17%)	4/50 (8%)	5/50 (10%)		
		0/86 (0%)	0/50 (0%)		6/80 (8%)	1/50 (2%)			
<b>Overall Incidence</b>	Total	2/576 (0.35%)	Mean 0.37%	SD 0.82%	Total	43/572 (7.52%)	Mean 7.52%	SD 6.09%	
.....									
<b>*Pituitary Gland: Pars Distalis or Unspecified Site:</b>									
<b>Carcinoma</b>									
		0/49 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)	0/49 (0%)	0/50 (0%)		
		0/45 (0%)	0/50 (0%)	0/50 (0%)	0/47 (0%)	0/49 (0%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/47 (0%)	3/48 (6%)	0/50 (0%)	0/50 (0%)		
		0/86 (0%)	0/50 (0%)		0/80 (0%)	0/50 (0%)			
<b>Overall Incidence</b>	Total	0/576 (0%)	Mean 0%	SD 0%	Total	3/572 (0.52%)	Mean 0.57%	SD 1.88%	
.....									
<b>*Pituitary Gland: Pars Distalis or Unspecified Site:</b>									
<b>Carcinoma or Adenoma</b>									
		0/49 (0%)	0/50 (0%)	1/49 (2%)	9/49 (18%)	2/49 (4%)	0/50 (0%)		
		0/45 (0%)	0/50 (0%)	0/50 (0%)	0/47 (0%)	3/49 (6%)	5/50 (10%)		
		1/50 (2%)	0/50 (0%)	0/47 (0%)	11/48 (23%)	4/50 (8%)	5/50 (10%)		
		0/86 (0%)	0/50 (0%)		6/80 (8%)	1/50 (2%)			
<b>Overall Incidence</b>	Total	2/576 (0.35%)	Mean 0.37%	SD 0.82%	Total	46/572 (8.04%)	Mean 8.09%	SD 7.22%	
.....									
<b>*Pituitary Gland: Pars Intermedia:</b>									
<b>Adenoma</b>									
		0/49 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)	0/49 (0%)	0/50 (0%)		
		0/45 (0%)	0/50 (0%)	0/50 (0%)	1/47 (2%)	1/49 (2%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/47 (0%)	0/48 (0%)	0/50 (0%)	0/50 (0%)		
		0/86 (0%)	0/50 (0%)		0/80 (0%)	0/50 (0%)			
<b>Overall Incidence</b>	Total	0/576 (0%)	Mean 0%	SD 0%	Total	2/572 (0.35%)	Mean 0.38%	SD 0.84%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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		Male				Female			
<b>*Pituitary Gland: Pars Intermedia:</b>									
<b>  Carcinoma</b>									
		0/49 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)	1/49 (2%)	0/50 (0%)		
		0/45 (0%)	0/50 (0%)	0/50 (0%)	0/47 (0%)	0/49 (0%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/47 (0%)	0/48 (0%)	0/50 (0%)	0/50 (0%)		
		0/86 (0%)	0/50 (0%)		0/80 (0%)	0/50 (0%)			
<b>Overall Incidence</b>	<b>Total</b>	0/576 (0%)	Mean 0%	SD 0%	<b>Total</b>	1/572 (0.17%)	Mean 0.19%	SD 0.62%	
.....									
<b>*Pituitary Gland: Pars Intermedia:</b>									
<b>  Carcinoma or Adenoma</b>									
		0/49 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)	1/49 (2%)	0/50 (0%)		
		0/45 (0%)	0/50 (0%)	0/50 (0%)	1/47 (2%)	1/49 (2%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/47 (0%)	0/48 (0%)	0/50 (0%)	0/50 (0%)		
		0/86 (0%)	0/50 (0%)		0/80 (0%)	0/50 (0%)			
<b>Overall Incidence</b>	<b>Total</b>	0/576 (0%)	Mean 0%	SD 0%	<b>Total</b>	3/572 (0.52%)	Mean 0.56%	SD 0.97%	
.....									
<b>*Pituitary Gland: Pars Intermedia:</b>									
<b>  Schwannoma Malignant</b>									
		0/49 (0%)	0/50 (0%)	0/49 (0%)	0/49 (0%)	0/49 (0%)	0/50 (0%)		
		0/45 (0%)	0/50 (0%)	0/50 (0%)	0/47 (0%)	0/49 (0%)	0/50 (0%)		
		0/50 (0%)	1/50 (2%)	0/47 (0%)	0/48 (0%)	0/50 (0%)	0/50 (0%)		
		0/86 (0%)	0/50 (0%)		0/80 (0%)	0/50 (0%)			
<b>Overall Incidence</b>	<b>Total</b>	1/576 (0.17%)	Mean 0.18%	SD 0.6%	<b>Total</b>	0/572 (0%)	Mean 0%	SD 0%	
.....									
<b>*Prostate:</b>									
<b>  Mast Cell Tumor</b>									
		0/49 (0%)	0/49 (0%)	0/50 (0%)					
		0/49 (0%)	0/50 (0%)	0/50 (0%)					
		0/50 (0%)	0/50 (0%)	0/50 (0%)					
		1/90 (1%)	0/50 (0%)						
<b>Overall Incidence</b>	<b>Total</b>	1/587 (0.17%)	Mean 0.1%	SD 0.34%					

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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 Report Date: 01/20/2018

		Male				Female								
<b>*Salivary Glands:</b>														
<b>Adenoma</b>														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	
		0/49	(0%)	1/50	(2%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/90	(0%)	0/50	(0%)			0/89	(0%)	0/50	(0%)			
<b>Overall Incidence</b>	Total	1/589 (0.17%)		Mean 0.18%		SD 0.6%		Total	0/587 (0%)		Mean 0%		SD 0%	
.....														
<b>*Salivary Glands:</b>														
<b>Carcinoma</b>														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	
		0/90	(0%)	0/50	(0%)			0/89	(0%)	0/50	(0%)			
<b>Overall Incidence</b>	Total	0/589 (0%)		Mean 0%		SD 0%		Total	1/587 (0.17%)		Mean 0.18%		SD 0.6%	
.....														
<b>*Salivary Glands:</b>														
<b>Carcinoma or Adenoma</b>														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	
		0/49	(0%)	1/50	(2%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	
		0/90	(0%)	0/50	(0%)			0/89	(0%)	0/50	(0%)			
<b>Overall Incidence</b>	Total	1/589 (0.17%)		Mean 0.18%		SD 0.6%		Total	1/587 (0.17%)		Mean 0.18%		SD 0.6%	
.....														
<b>*Salivary Glands:</b>														
<b>Hemangiosarcoma</b>														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	
		0/49	(0%)	1/50	(2%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/90	(0%)	0/50	(0%)			0/89	(0%)	0/50	(0%)			
<b>Overall Incidence</b>	Total	1/589 (0.17%)		Mean 0.18%		SD 0.6%		Total	0/587 (0%)		Mean 0%		SD 0%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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 Report Date: 01/20/2018

		Male				Female								
<b>*Salivary Glands:</b>														
<b>Mast Cell Tumor</b>														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		1/90	(1%)	0/50	(0%)			0/89	(0%)	0/50	(0%)			
<b>Overall Incidence</b>	Total	1/589 (0.17%)		Mean 0.1%		SD 0.34%		Total	0/587 (0%)		Mean 0%		SD 0%	
.....														
<b>*Salivary Glands:</b>														
<b>Myxosarcoma</b>														
		0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/49	(0%)	0/50	(0%)	
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	
		0/90	(0%)	0/50	(0%)			0/89	(0%)	0/50	(0%)			
<b>Overall Incidence</b>	Total	0/589 (0%)		Mean 0%		SD 0%		Total	1/587 (0.17%)		Mean 0.18%		SD 0.6%	
.....														
<b>#Seminal Vesicle:</b>														
<b>Adenoma</b>														
		1/50	(2%)	0/50	(0%)	0/50	(0%)							
		0/49	(0%)	0/50	(0%)	0/50	(0%)							
		0/50	(0%)	0/50	(0%)	0/50	(0%)							
		0/90	(0%)	0/50	(0%)									
<b>Overall Incidence</b>	Total	1/589 (0.17%)		Mean 0.18%		SD 0.6%								
.....														
<b>#Seminal Vesicle:</b>														
<b>Fibroma</b>														
		0/50	(0%)	0/50	(0%)	0/50	(0%)							
		0/49	(0%)	0/50	(0%)	0/50	(0%)							
		0/50	(0%)	0/50	(0%)	0/50	(0%)							
		1/90	(1%)	0/50	(0%)									
<b>Overall Incidence</b>	Total	1/589 (0.17%)		Mean 0.1%		SD 0.34%								

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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 Report Date: 01/20/2018

		Male				Female			
<b>#Skeletal Muscle:</b>									
<b>Osteosarcoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)			1/90 (1%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	0/589 (0%)	Mean 0%	SD 0%	Total	1/590 (0.17%)	Mean 0.1%	SD 0.34%	
.....									
<b>#Skeletal Muscle:</b>									
<b>Rhabdomyosarcoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	2/50 (4%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	2/50 (4%)	1/50 (2%)	
		0/90 (0%)	0/50 (0%)			0/90 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	1/589 (0.17%)	Mean 0.18%	SD 0.6%	Total	6/590 (1.02%)	Mean 1.09%	SD 1.64%	
.....									
<b>#Skeletal Muscle:</b>									
<b>Rhabdomyosarcoma or Rhabdomyoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	2/50 (4%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	2/50 (4%)	1/50 (2%)	
		0/90 (0%)	0/50 (0%)			0/90 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	1/589 (0.17%)	Mean 0.18%	SD 0.6%	Total	6/590 (1.02%)	Mean 1.09%	SD 1.64%	
.....									
<b>#Skeletal Muscle:</b>									
<b>Sarcoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/90 (1%)	0/50 (0%)			0/90 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	1/589 (0.17%)	Mean 0.1%	SD 0.34%	Total	2/590 (0.34%)	Mean 0.36%	SD 0.81%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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 Report Date: 01/20/2018

		Male				Female			
<b>#Skin:</b>									
<b>Basal Cell Carcinoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)			0/90 (0%)	1/50 (2%)		
<b>Overall Incidence</b>	Total	0/589 (0%)	Mean 0%	SD 0%	Total	2/590 (0.34%)	Mean 0.36%	SD 0.81%	
-----									
<b>#Skin:</b>									
<b>Basal Cell Carcinoma or Basosquamous Tumor (malignant or NOS)</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)			0/90 (0%)	1/50 (2%)		
<b>Overall Incidence</b>	Total	0/589 (0%)	Mean 0%	SD 0%	Total	2/590 (0.34%)	Mean 0.36%	SD 0.81%	
-----									
<b>#Skin:</b>									
<b>Basal Cell Carcinoma, Basal Cell Adenoma, Basosquamous Tumor (benign, malignant or NOS), or Trichoepithelioma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)			0/90 (0%)	1/50 (2%)		
<b>Overall Incidence</b>	Total	0/589 (0%)	Mean 0%	SD 0%	Total	2/590 (0.34%)	Mean 0.36%	SD 0.81%	
-----									
<b>#Skin:</b>									
<b>Basal or Sq. Cell Carcinoma, Carcinoma, Basosq. Tumor (M or B), Basal Cell Adenoma, Adenoma, Papilloma, Sq Papilloma, Keratoacanthoma, Trichoepithelioma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	1/50 (2%)			0/90 (0%)	1/50 (2%)		
<b>Overall Incidence</b>	Total	1/589 (0.17%)	Mean 0.18%	SD 0.6%	Total	3/590 (0.51%)	Mean 0.55%	SD 0.93%	

\*: Denominator is number of animals with tissues examined microscopically  
 #: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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 Report Date: 01/20/2018

		Male				Female			
<b>#Skin:</b>									
<b>Fibroma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)			1/90 (1%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	0/589 (0%)	Mean 0%	SD 0%	Total	1/590 (0.17%)	Mean 0.1%	SD 0.34%	
.....									
<b>#Skin:</b>									
<b>Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, Malignant Fibrous Histiocytoma, or Hemangiopericytoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
		1/50 (2%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
		1/90 (1%)	1/50 (2%)			6/90 (7%)	1/50 (2%)		
<b>Overall Incidence</b>	Total	5/589 (0.85%)	Mean 0.83%	SD 0.98%	Total	12/590 (2.03%)	Mean 1.7%	SD 2.12%	
.....									
<b>#Skin:</b>									
<b>Fibroma, Fibrosarcoma, Sarcoma, Myxoma, Myxosarcoma, or Malignant Fibrous Histiocytoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
		1/50 (2%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	1/50 (2%)	1/50 (2%)
		1/90 (1%)	1/50 (2%)			6/90 (7%)	1/50 (2%)		
<b>Overall Incidence</b>	Total	5/589 (0.85%)	Mean 0.83%	SD 0.98%	Total	12/590 (2.03%)	Mean 1.7%	SD 2.12%	
.....									
<b>#Skin:</b>									
<b>Fibrosarcoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/50 (2%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
		0/90 (0%)	0/50 (0%)			3/90 (3%)	1/50 (2%)		
<b>Overall Incidence</b>	Total	2/589 (0.34%)	Mean 0.36%	SD 0.81%	Total	6/590 (1.02%)	Mean 0.85%	SD 1.23%	

\*: Denominator is number of animals with tissues examined microscopically  
 #: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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 Report Date: 01/20/2018

		Male				Female							
<b>#Skin:</b>													
<b>Fibrosarcoma, Sarcoma, Myxosarcoma, or Malignant Fibrous Histiocytoma</b>													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	2/50	(4%)	0/50	(0%)	0/50	(0%)
		0/49	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)
		1/50	(2%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	1/50	(2%)
		1/90	(1%)	1/50	(2%)			5/90	(6%)	1/50	(2%)		
<b>Overall Incidence</b>	Total	5/589 (0.85%)		Mean 0.83%		SD 0.98%		Total 11/590 (1.86%)		Mean 1.6%		SD 1.87%	
.....													
<b>#Skin:</b>													
<b>Hemangioma</b>													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/90	(0%)	0/50	(0%)			0/90	(0%)	1/50	(2%)		
<b>Overall Incidence</b>	Total	0/589 (0%)		Mean 0%		SD 0%		Total 1/590 (0.17%)		Mean 0.18%		SD 0.6%	
.....													
<b>#Skin:</b>													
<b>Hemangiosarcoma</b>													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	2/50	(4%)
		0/50	(0%)	2/50	(4%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/90	(1%)	0/50	(0%)			2/90	(2%)	1/50	(2%)		
<b>Overall Incidence</b>	Total	3/589 (0.51%)		Mean 0.46%		SD 1.22%		Total 6/590 (1.02%)		Mean 0.93%		SD 1.39%	
.....													
<b>#Skin:</b>													
<b>Keratoacanthoma</b>													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/90	(0%)	1/50	(2%)			0/90	(0%)	0/50	(0%)		
<b>Overall Incidence</b>	Total	1/589 (0.17%)		Mean 0.18%		SD 0.6%		Total 0/590 (0%)		Mean 0%		SD 0%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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		Male				Female					
<b>#Skin:</b>											
<b>Lipoma</b>											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	2/50	(4%)	0/50	(0%)	0/50	(0%)
		1/90	(1%)	0/50	(0%)			1/90	(1%)	0/50	(0%)
<b>Overall Incidence</b>	<b>Total</b>	3/589 (0.51%)		Mean 0.46%		SD 1.22%		<b>Total</b>		1/590 (0.17%)	
								<b>Mean</b>		0.1%	
								<b>SD</b>		0.34%	
.....											
<b>#Skin:</b>											
<b>Malignant Fibrous Histiocytoma</b>											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		1/90	(1%)	0/50	(0%)			0/90	(0%)	0/50	(0%)
<b>Overall Incidence</b>	<b>Total</b>	2/589 (0.34%)		Mean 0.28%		SD 0.66%		<b>Total</b>		1/590 (0.17%)	
								<b>Mean</b>		0.18%	
								<b>SD</b>		0.6%	
.....											
<b>#Skin:</b>											
<b>Melanoma Benign</b>											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/49	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/90	(0%)	0/50	(0%)			0/90	(0%)	0/50	(0%)
<b>Overall Incidence</b>	<b>Total</b>	1/589 (0.17%)		Mean 0.18%		SD 0.6%		<b>Total</b>		0/590 (0%)	
								<b>Mean</b>		0%	
								<b>SD</b>		0%	
.....											
<b>#Skin:</b>											
<b>Neurofibrosarcoma or Schwannoma (malignant or NOS)</b>											
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)
		0/90	(0%)	0/50	(0%)			0/90	(0%)	1/50	(2%)
<b>Overall Incidence</b>	<b>Total</b>	0/589 (0%)		Mean 0%		SD 0%		<b>Total</b>		1/590 (0.17%)	
								<b>Mean</b>		0.18%	
								<b>SD</b>		0.6%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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 Report Date: 01/20/2018

		Male				Female							
<b>#Skin:</b>													
<b>Neurofibrosarcoma, Neurofibroma, or Schwannoma (benign, malignant or NOS)</b>													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/90	(0%)	0/50	(0%)	0/90	(0%)	1/50	(2%)				
<b>Overall Incidence</b>	<b>Total</b>	0/589 (0%)		Mean 0%		SD 0%		Total 1/590 (0.17%)		Mean 0.18%		SD 0.6%	
.....													
<b>#Skin:</b>													
<b>Osteosarcoma</b>													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/90	(0%)	0/50	(0%)	1/90	(1%)	0/50	(0%)				
<b>Overall Incidence</b>	<b>Total</b>	0/589 (0%)		Mean 0%		SD 0%		Total 1/590 (0.17%)		Mean 0.1%		SD 0.34%	
.....													
<b>#Skin:</b>													
<b>Pilomatrixoma</b>													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		1/90	(1%)	0/50	(0%)	0/90	(0%)	0/50	(0%)				
<b>Overall Incidence</b>	<b>Total</b>	1/589 (0.17%)		Mean 0.1%		SD 0.34%		Total 0/590 (0%)		Mean 0%		SD 0%	
.....													
<b>#Skin:</b>													
<b>Sarcoma</b>													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	1/50	(2%)		
		0/90	(0%)	1/50	(2%)	2/90	(2%)	0/50	(0%)				
<b>Overall Incidence</b>	<b>Total</b>	1/589 (0.17%)		Mean 0.18%		SD 0.6%		Total 4/590 (0.68%)		Mean 0.57%		SD 0.97%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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 Report Date: 01/20/2018

		Male				Female			
<b>#Skin:</b>									
<b>Schwannoma Malignant</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)			0/90 (0%)	1/50 (2%)		
<b>Overall Incidence</b>	Total	0/589 (0%)	Mean 0%	SD 0%	Total	1/590 (0.17%)	Mean 0.18%	SD 0.6%	
.....									
<b>#Skin:</b>									
<b>Squamous Cell Carcinoma, Basal Cell Carcinoma, Basosquamous Tumor (malignant or NOS), or Carcinoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	1/50 (2%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)			0/90 (0%)	1/50 (2%)		
<b>Overall Incidence</b>	Total	0/589 (0%)	Mean 0%	SD 0%	Total	2/590 (0.34%)	Mean 0.36%	SD 0.81%	
.....									
<b>#Skin:</b>									
<b>Squamous Cell Papilloma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)			0/90 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	0/589 (0%)	Mean 0%	SD 0%	Total	1/590 (0.17%)	Mean 0.18%	SD 0.6%	
.....									
<b>#Skin:</b>									
<b>Squamous Cell Papilloma or Papilloma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)			0/90 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	0/589 (0%)	Mean 0%	SD 0%	Total	1/590 (0.17%)	Mean 0.18%	SD 0.6%	

\*: Denominator is number of animals with tissues examined microscopically  
 #: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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 Report Date: 01/20/2018

		Male				Female			
<b>#Skin:</b>									
<b>Squamous Cell Papilloma, Papilloma, Squamous Cell Carcinoma or Keratoacanthoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	1/50 (2%)			0/90 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	1/589 (0.17%)		Mean 0.18%	SD 0.6%	Total 1/590 (0.17%)		Mean 0.18%	SD 0.6%
.....									
<b>#Skin:</b>									
<b>Squamous Cell Papilloma, Papilloma, or Keratoacanthoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	1/50 (2%)			0/90 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	1/589 (0.17%)		Mean 0.18%	SD 0.6%	Total 1/590 (0.17%)		Mean 0.18%	SD 0.6%
.....									
<b>*Spleen:</b>									
<b>Hemangiosarcoma</b>									
		2/49 (4%)	0/48 (0%)	2/50 (4%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		1/48 (2%)	1/50 (2%)	0/50 (0%)	0/49 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)
		0/49 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)
		0/87 (0%)	1/50 (2%)			0/86 (0%)	1/50 (2%)		
<b>Overall Incidence</b>	Total	9/581 (1.55%)		Mean 1.65%	SD 1.52%	Total 3/585 (0.51%)		Mean 0.55%	SD 0.93%
.....									
<b>#Stomach, Forestomach:</b>									
<b>Squamous Cell Carcinoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/49 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)			0/90 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	1/589 (0.17%)		Mean 0.18%	SD 0.6%	Total 1/590 (0.17%)		Mean 0.18%	SD 0.6%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
**Route: ALL ROUTES**  
**Vehicle: ALL VEHICLES**

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		Male				Female			
<b>#Stomach, Forestomach:</b>									
<b>Squamous Cell Carcinoma or Papilloma Squamous</b>									
		1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	2/50 (4%)		
		2/49 (4%)	2/50 (4%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)		
		1/50 (2%)	1/50 (2%)	2/50 (4%)	1/50 (2%)	1/50 (2%)	0/50 (0%)		
		0/90 (0%)	5/50 (10%)		1/90 (1%)	0/50 (0%)			
<b>Overall Incidence</b>	Total	14/589 (2.38%)	Mean 2.55%	SD 2.98%	Total	8/590 (1.36%)	Mean 1.37%	SD 1.28%	
.....									
<b>#Stomach, Forestomach:</b>									
<b>Squamous Cell Papilloma</b>									
		1/50 (2%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	1/50 (2%)		
		2/49 (4%)	1/50 (2%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)		
		1/50 (2%)	1/50 (2%)	2/50 (4%)	1/50 (2%)	1/50 (2%)	0/50 (0%)		
		0/90 (0%)	5/50 (10%)		1/90 (1%)	0/50 (0%)			
<b>Overall Incidence</b>	Total	13/589 (2.21%)	Mean 2.37%	SD 2.95%	Total	7/590 (1.19%)	Mean 1.19%	SD 0.98%	
.....									
<b>#Stomach, Glandular:</b>									
<b>Adenoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/49 (0%)	0/50 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/90 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)			
<b>Overall Incidence</b>	Total	0/589 (0%)	Mean 0%	SD 0%	Total	1/590 (0.17%)	Mean 0.18%	SD 0.6%	
.....									
<b>#Stomach, Glandular:</b>									
<b>Carcinoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/49 (0%)	0/50 (0%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/90 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)			
<b>Overall Incidence</b>	Total	1/589 (0.17%)	Mean 0.18%	SD 0.6%	Total	0/590 (0%)	Mean 0%	SD 0%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
**Route: ALL ROUTES**  
**Vehicle: ALL VEHICLES**

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		Male				Female			
<b>#Stomach, Glandular:</b>									
<b>Carcinoma or Adenoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/49 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)
		0/90 (0%)	0/50 (0%)		0/90 (0%)	0/50 (0%)			
<b>Overall Incidence</b>	Total	1/589 (0.17%)	Mean 0.18%	SD 0.6%	Total	1/590 (0.17%)	Mean 0.18%	SD 0.6%	
.....									
<b>*Testis:</b>									
<b>Adenoma</b>									
		0/49 (0%)	0/49 (0%)	1/50 (2%)					
		0/49 (0%)	0/50 (0%)	0/50 (0%)					
		0/50 (0%)	0/50 (0%)	2/50 (4%)					
		2/90 (2%)	0/50 (0%)						
<b>Overall Incidence</b>	Total	5/587 (0.85%)	Mean 0.75%	SD 1.37%					
.....									
<b>*Testis:</b>									
<b>Hemangioma</b>									
		0/49 (0%)	0/49 (0%)	0/50 (0%)					
		1/49 (2%)	0/50 (0%)	0/50 (0%)					
		0/50 (0%)	0/50 (0%)	0/50 (0%)					
		0/90 (0%)	0/50 (0%)						
<b>Overall Incidence</b>	Total	1/587 (0.17%)	Mean 0.19%	SD 0.62%					
.....									
<b>*Thymus:</b>									
<b>Thymoma Benign</b>									
		0/41 (0%)	0/43 (0%)	0/44 (0%)	0/47 (0%)	0/47 (0%)	0/47 (0%)	0/47 (0%)	0/47 (0%)
		0/45 (0%)	1/49 (2%)	0/41 (0%)	0/48 (0%)	0/49 (0%)	0/44 (0%)	0/44 (0%)	0/44 (0%)
		0/44 (0%)	0/48 (0%)	0/40 (0%)	0/48 (0%)	0/50 (0%)	0/48 (0%)	0/48 (0%)	0/48 (0%)
		0/75 (0%)	0/47 (0%)		0/85 (0%)	0/50 (0%)			
<b>Overall Incidence</b>	Total	1/517 (0.19%)	Mean 0.19%	SD 0.62%	Total	0/563 (0%)	Mean 0%	SD 0%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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		Male				Female			
<b>*Thymus:</b>									
<b>Thymoma NOS</b>									
		0/41 (0%)	0/43 (0%)	0/44 (0%)		1/47 (2%)	0/47 (0%)	0/47 (0%)	
		0/45 (0%)	0/49 (0%)	0/41 (0%)		0/48 (0%)	0/49 (0%)	0/44 (0%)	
		0/44 (0%)	0/48 (0%)	0/40 (0%)		0/48 (0%)	0/50 (0%)	0/48 (0%)	
		0/75 (0%)	0/47 (0%)			0/85 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	0/517 (0%)	Mean 0%	SD 0%	Total	1/563 (0.18%)	Mean 0.19%	SD 0.64%	
.....									
<b>*Thymus:</b>									
<b>Thymoma: Benign, Malignant, NOS</b>									
		0/41 (0%)	0/43 (0%)	0/44 (0%)		1/47 (2%)	0/47 (0%)	0/47 (0%)	
		0/45 (0%)	1/49 (2%)	0/41 (0%)		0/48 (0%)	0/49 (0%)	0/44 (0%)	
		0/44 (0%)	0/48 (0%)	0/40 (0%)		0/48 (0%)	0/50 (0%)	0/48 (0%)	
		0/75 (0%)	0/47 (0%)			0/85 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	1/517 (0.19%)	Mean 0.19%	SD 0.62%	Total	1/563 (0.18%)	Mean 0.19%	SD 0.64%	
.....									
<b>*Thyroid Gland: C-Cell:</b>									
<b>Adenoma</b>									
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/48 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/48 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/89 (0%)	0/50 (0%)			0/86 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	0/587 (0%)	Mean 0%	SD 0%	Total	1/582 (0.17%)	Mean 0.18%	SD 0.6%	
.....									
<b>*Thyroid Gland: C-Cell:</b>									
<b>Carcinoma</b>									
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/48 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/48 (0%)	1/50 (2%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	0/50 (0%)	
		0/89 (0%)	0/50 (0%)			1/86 (1%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	0/587 (0%)	Mean 0%	SD 0%	Total	3/582 (0.52%)	Mean 0.47%	SD 0.83%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
**Route: ALL ROUTES**  
**Vehicle: ALL VEHICLES**

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		Male				Female			
<b>*Thyroid Gland: C-Cell: Carcinoma or Adenoma</b>									
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/48 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/48 (0%)	1/50 (2%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		1/50 (2%)	0/50 (0%)	1/50 (2%)	
		0/89 (0%)	0/50 (0%)			1/86 (1%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	0/587 (0%)	Mean 0%	SD 0%	Total	4/582 (0.69%)	Mean 0.65%	SD 0.93%	
.....									
<b>*Thyroid Gland: Follicular Cell: Adenoma</b>									
		0/49 (0%)	0/50 (0%)	1/50 (2%)		0/48 (0%)	1/50 (2%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		1/48 (2%)	1/50 (2%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/89 (0%)	0/50 (0%)			0/86 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	2/587 (0.34%)	Mean 0.36%	SD 0.81%	Total	4/582 (0.69%)	Mean 0.73%	SD 1.02%	
.....									
<b>*Thyroid Gland: Follicular Cell: Carcinoma or Adenoma</b>									
		0/49 (0%)	0/50 (0%)	1/50 (2%)		0/48 (0%)	1/50 (2%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		1/48 (2%)	1/50 (2%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	1/50 (2%)	
		0/89 (0%)	0/50 (0%)			0/86 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	2/587 (0.34%)	Mean 0.36%	SD 0.81%	Total	4/582 (0.69%)	Mean 0.73%	SD 1.02%	
.....									
<b>#Tongue: Squamous Cell Carcinoma or Papilloma Squamous</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	1/50 (2%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)			0/90 (0%)	1/50 (2%)		
<b>Overall Incidence</b>	Total	1/589 (0.17%)	Mean 0.18%	SD 0.6%	Total	1/590 (0.17%)	Mean 0.18%	SD 0.6%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
**Route: ALL ROUTES**  
**Vehicle: ALL VEHICLES**

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		Male				Female							
<b>#Tongue:</b>													
<b>Squamous Cell Papilloma</b>													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/90	(0%)	0/50	(0%)	0/90	(0%)	1/50	(2%)				
<b>Overall Incidence</b>	Total	1/589 (0.17%)		Mean 0.18%		SD 0.6%		Total 1/590 (0.17%)		Mean 0.18%		SD 0.6%	
.....													
<b>#Tooth:</b>													
<b>Odontoma</b>													
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/90	(0%)	2/50	(4%)	0/90	(0%)	0/50	(0%)	0/50	(0%)		
<b>Overall Incidence</b>	Total	2/589 (0.34%)		Mean 0.36%		SD 1.21%		Total 0/590 (0%)		Mean 0%		SD 0%	
.....													
<b>*Urinary Bladder:</b>													
<b>Hemangiosarcoma</b>													
		0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/49	(0%)	0/50	(0%)	1/50	(2%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/87	(0%)	0/50	(0%)	0/86	(0%)	0/50	(0%)	0/49	(0%)		
<b>Overall Incidence</b>	Total	1/585 (0.17%)		Mean 0.18%		SD 0.6%		Total 0/585 (0%)		Mean 0%		SD 0%	
.....													
<b>*Urinary Bladder:</b>													
<b>Mast Cell Tumor</b>													
		0/50	(0%)	0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/49	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)		
		0/50	(0%)	0/50	(0%)	0/50	(0%)	0/50	(0%)	0/49	(0%)		
		1/87	(1%)	0/50	(0%)	0/86	(0%)	0/50	(0%)				
<b>Overall Incidence</b>	Total	1/585 (0.17%)		Mean 0.1%		SD 0.35%		Total 0/585 (0%)		Mean 0%		SD 0%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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 Report Date: 01/20/2018

	Male		Female			
<b>#Uterus:</b>						
<b>Adenoma</b>						
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	1/50 (2%)		
		0/90 (0%)	0/50 (0%)			
<b>Overall Incidence</b>		Total 1/590 (0.17%)	Mean 0.18%		SD 0.6%	
.....						
<b>#Uterus:</b>						
<b>Fibroma</b>						
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		
		1/90 (1%)	0/50 (0%)			
<b>Overall Incidence</b>		Total 1/590 (0.17%)	Mean 0.1%		SD 0.34%	
.....						
<b>#Uterus:</b>						
<b>Granular Cell Tumor Benign</b>						
		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)		
		0/90 (0%)	0/50 (0%)			
<b>Overall Incidence</b>		Total 1/590 (0.17%)	Mean 0.18%		SD 0.6%	
.....						
<b>#Uterus:</b>						
<b>Hemangioma</b>						
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	1/50 (2%)		
		0/90 (0%)	0/50 (0%)			
<b>Overall Incidence</b>		Total 1/590 (0.17%)	Mean 0.18%		SD 0.6%	

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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 Report Date: 01/20/2018

	Male		Female			
<b>#Uterus:</b>						
<b>Hemangiosarcoma</b>						
		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	
		1/50 (2%)	1/50 (2%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)			
<b>Overall Incidence</b>	Total	4/590 (0.68%)	Mean	0.73%	SD	1.01%
.....						
<b>#Uterus:</b>						
<b>Leiomyoma</b>						
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	1/50 (2%)	1/50 (2%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/90 (1%)	0/50 (0%)			
<b>Overall Incidence</b>	Total	2/590 (0.34%)	Mean	0.28%	SD	0.66%
.....						
<b>#Uterus:</b>						
<b>Polyp Stromal</b>						
		4/50 (8%)	0/50 (0%)	2/50 (4%)	2/50 (4%)	
		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		1/50 (2%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)			
<b>Overall Incidence</b>	Total	8/590 (1.36%)	Mean	1.45%	SD	2.54%
.....						
<b>#Uterus:</b>						
<b>Sarcoma Stromal</b>						
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	2/50 (4%)			
<b>Overall Incidence</b>	Total	2/590 (0.34%)	Mean	0.36%	SD	1.21%

\*: Denominator is number of animals with tissues examined microscopically

#: Denominator is number of animals necropsied

Version: Aug2017  
 Contract/Lab: All Laboratories  
 Species: MICE  
 Strain: B6C3F1/N  
 Length of Study: CHRONIC

**Toxicology Data Management System**  
 Tumor Incidence for Selected Control Animal Groups  
 Route: ALL ROUTES  
 Vehicle: ALL VEHICLES

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		Male				Female			
<b>#Uterus:</b>									
<b>Sarcoma Stromal or Polyp Stromal</b>									
						4/50 (8%)	0/50 (0%)	2/50 (4%)	
						1/50 (2%)	0/50 (0%)	0/50 (0%)	
						1/50 (2%)	0/50 (0%)	0/50 (0%)	
						0/90 (0%)	2/50 (4%)	0/50 (0%)	
<b>Overall Incidence</b>					Total	10/590 (1.69%)	Mean 1.82%	SD 2.6%	
.....									
<b>#Zymbal's Gland:</b>									
<b>Carcinoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)			0/90 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	1/589 (0.17%)	Mean 0.18%	SD 0.6%	Total	0/590 (0%)	Mean 0%	SD 0%	
.....									
<b>#Zymbal's Gland:</b>									
<b>Carcinoma or Adenoma</b>									
		0/50 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/49 (0%)	0/50 (0%)	0/50 (0%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/50 (0%)	0/50 (0%)	1/50 (2%)		0/50 (0%)	0/50 (0%)	0/50 (0%)	
		0/90 (0%)	0/50 (0%)			0/90 (0%)	0/50 (0%)		
<b>Overall Incidence</b>	Total	1/589 (0.17%)	Mean 0.18%	SD 0.6%	Total	0/590 (0%)	Mean 0%	SD 0%	

\*: Denominator is number of animals with tissues examined microscopically  
 #: Denominator is number of animals necropsied